

Title (en)  
Pendulum valve assembly

Title (de)  
Pendelschieber

Title (fr)  
Tiroir à pendule

Publication  
**EP 1063457 A3 20020130 (EN)**

Application  
**EP 00112691 A 20000615**

Priority  
US 33908499 A 19990623

Abstract (en)  
[origin: US6089537A] A pendulum valve assembly comprises a housing including an interior space and a pair of openings through which fluid can enter and exit the interior space; a valve seat disposed in the interior space around the edge of a first of the openings; a disk mounted relative to the housing so that the disk is movable within the interior space between a completely opened position and a completely closed position, the disk being constructed so that when the disk is moved to the closed position the disk engages the valve seat and seals the first opening so that fluid can not pass therethrough; a longitudinal shaft defining a longitudinal axis, fixedly coupled to the disk through at least one pivot arm and at least partially mounted within the housing so that (a) the shaft and disk can rotate about the longitudinal axis between a first angular position where the disk is in the completely opened position and a second angular position where the disk is substantially axially aligned with the first opening but spaced therefrom, and (b) the shaft and disk can move longitudinally, substantially parallel to the longitudinal axis, so that the disk can move between the second angular position and the closed position as it continues to rotate; and a cam mechanism coupled between the shaft and the housing and arranged so as to control the rotational movement of the shaft and disk between the first angular position and the second angular position and the longitudinal movement and continued rotational movement of the shaft and disk between the second angular position and the completely closed position.

IPC 1-7  
**F16K 3/06**; **F04D 19/04**

IPC 8 full level  
**F16K 3/10** (2006.01); **F16K 31/04** (2006.01); **F16K 31/53** (2006.01); **F16K 51/02** (2006.01)

CPC (source: EP US)  
**F16K 3/10** (2013.01 - EP US); **F16K 31/043** (2013.01 - EP US); **F16K 31/535** (2013.01 - EP US); **F16K 51/02** (2013.01 - EP US)

Citation (search report)  
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• [A] GB 500966 A 19390220 - FRANCIS VICTOR BROWN, et al  
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